

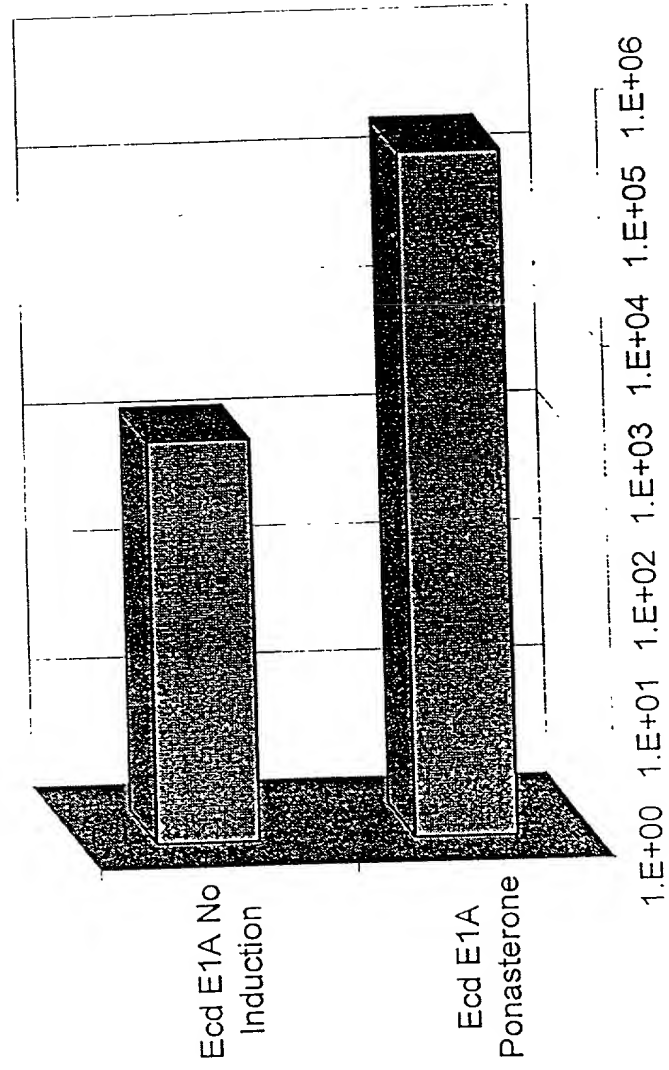
Fig 1

3D bar chart showing the effect of pHLIP 1 (STD Helper) and pHLIP 1-IRES-GFP on cell viability. The y-axis represents cell viability (log scale, 1.E+04 to 1.E+10). The x-axis shows concentrations (1.E+04 to 1.E+10). The legend indicates two series: pHLIP 1 (STD Helper) (dark bars) and pHLIP 1-IRES-GFP (light bars).

Concentration	pHLIP 1 (STD Helper)	pHLIP 1-IRES-GFP
1.E+04	~1.E+09	~1.E+09
1.E+05	~1.E+08	~1.E+09
1.E+06	~1.E+07	~1.E+09
1.E+07	~1.E+06	~1.E+09
1.E+08	~1.E+05	~1.E+09
1.E+09	~1.E+04	~1.E+09
1.E+10	~1.E+04	~1.E+09

Fig 2

Fig 3



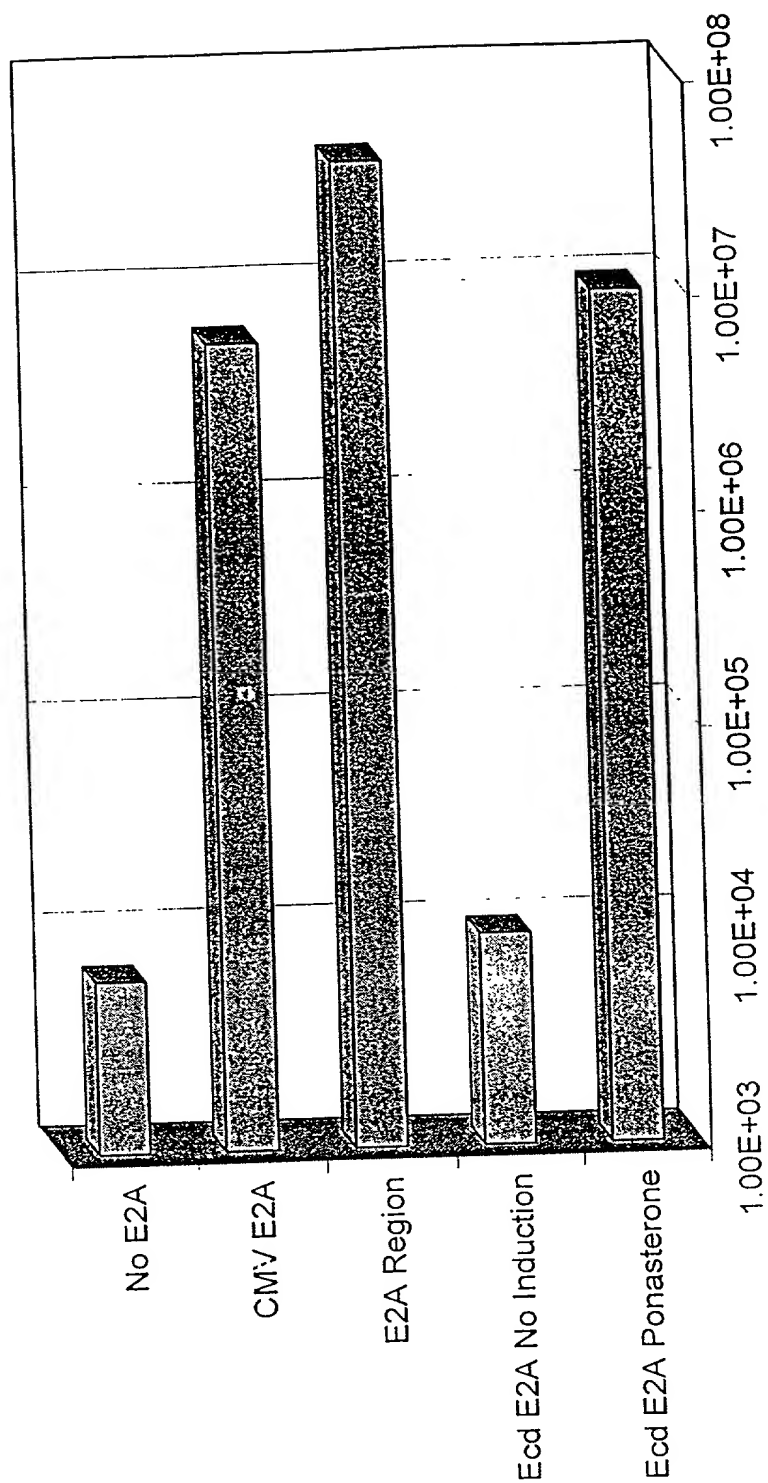


Fig 4

# Packaging Cell Line: Rep Only

cap

Ad/cap  
helper

Ad-AAV cap in E3

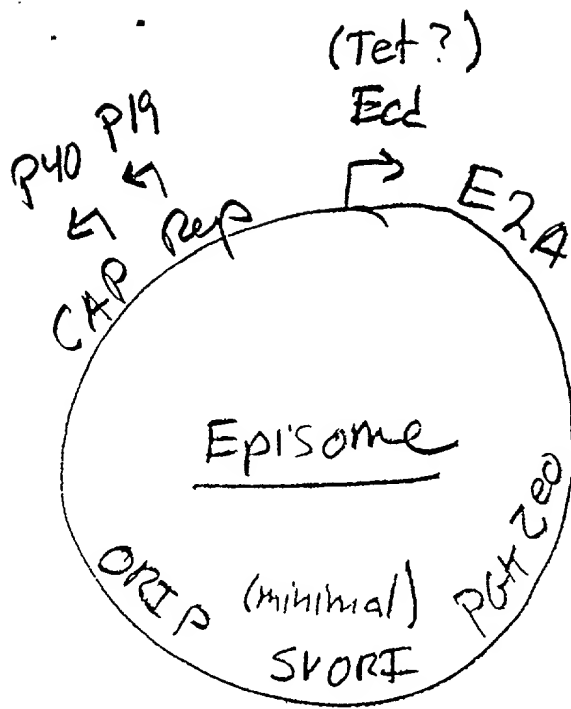
rep

Vector

AAV vector

Productivity target:  
 $10^4$ - $10^5$  particles/cell

Fig 5



## Genome Site 1



## Genome Site 2

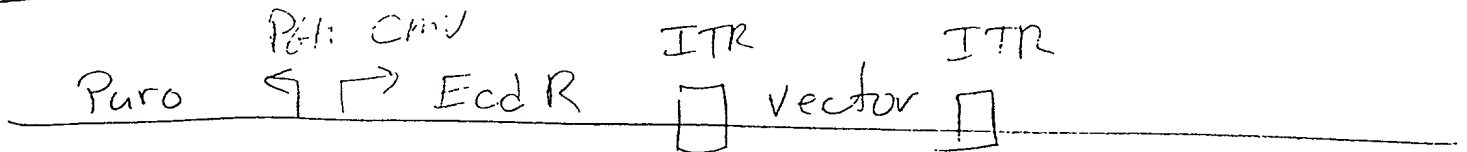


Fig 6

Transfection to 293 cells						
1	pH19	pladen05	LacZ(#188)	pUC119	663000000	6.63E+08
2				p4.1cE1B19K(79-98)	388000000	3.88E+07
3				p4.1cE1B19Kmut(81-98)	501000000	5.01E+07
4				pTKE1B19K(79)	550000000	5.50E+08
5				pTKE1B19Kmut(81)	453000000	4.53E+08
6				p4.1E1B19K(79)	437000000	4.37E+08
7				pTKBcl-XL	550000000	5.50E+08
8				pTKBcl-2	420000000	4.20E+08

pTK.... means the plasmid has TK promoter.

Transfection to Hela cells						
1	pRCMLacZ(#275)	pladen05	E1	pUC119	1960000	1.96E+06
2			E1delB19K	pUC119	310000	3.10E+05
3				pTKE1B19K(79)	6310000	6.31E+06
4				pTKBcl-XL	3410000	3.41E+06
5				pTKBcl-2	3060000	3.06E+06
6				p4.1E1B19K(79)	3690000	3.69E+06

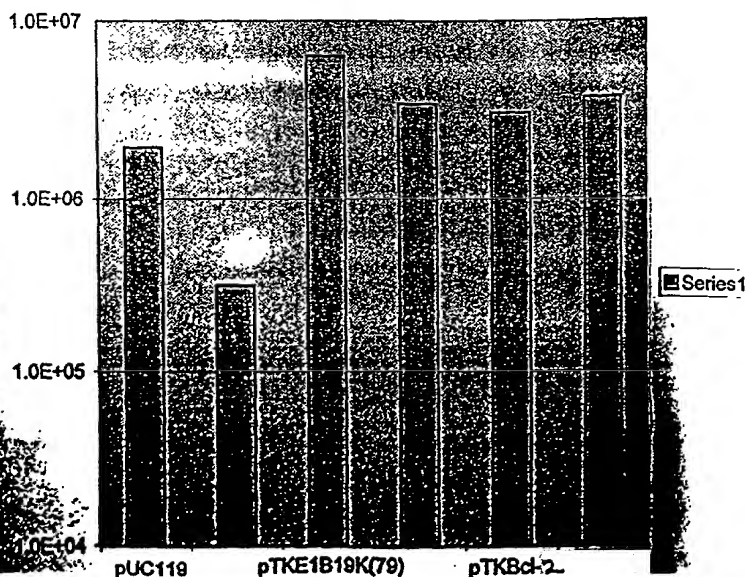
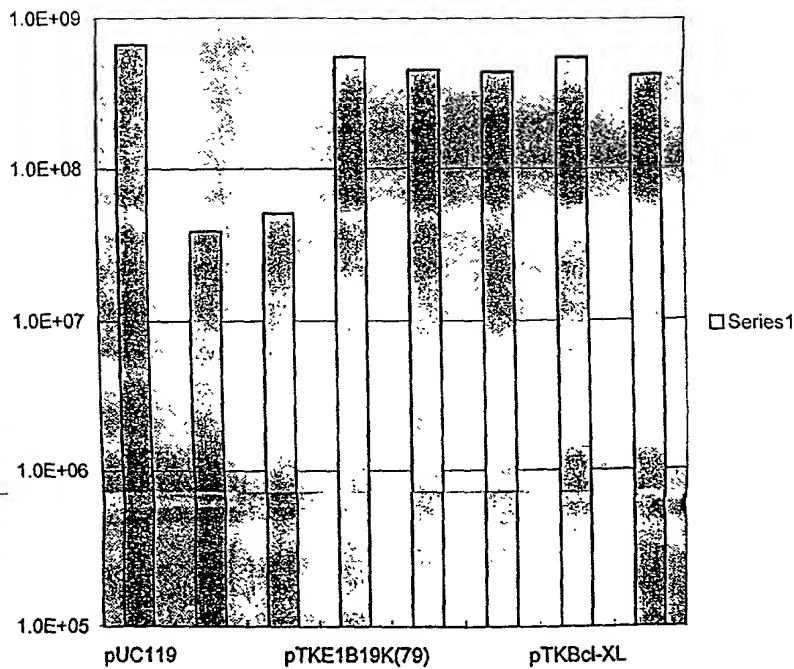


Fig 7